



## 5000Wh BATTERY SYSTEM



User Manual



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## Disclaimer

**The manufacturer shall not be liable for direct or indirect battery system damage or property loss caused under the following circumstances.**

- Modify or replace parts without official authorization from the manufacturer.
- Change or clear the serial number by non-manufacturer technical professionals.
- System, assembled with other devices, design and installation fail to meet standards, safety regulations and other relevant requirements.
- Battery system damage caused by failure to comply with the user manual.
- Battery system damage caused by improper use or misuse.
- Battery system damage caused by insufficient ventilation.
- The maintenance procedures do not comply with acceptable standards.
- Battery system damage caused by force majeure, such as earthquake, storm, lightning, overvoltage, fire, etc.
- Battery system damage caused by any external factors.

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## 01 Safety precaution

### Danger!

- Please keep power off before any operations to avoid danger. Strictly follow all safety precautions outlined in this manual and safety labels on the equipment during operation.
- This manual applies to trained and knowledgeable technical professionals. The technical personnel has to be familiar with the product, local standards, and electric systems.
- Do not use the battery if it is defective, broken, or damaged.
- Do not disassemble, modify, or replace any parts of the battery without official authorization from the manufacturer.
- Battery damage may cause electrolyte leak. If leak happens, avoid contacting with the leaking liquid or gas, but contact the after-sales service as soon as possible.

### Warning!

#### Anyone contacting the leaked substance accidentally has to do as follows:

- Breath in the leaked substance: Evacuate from the polluted area, and seek immediate medical assistance.
- Eye contact: Rinse your eyes for at least 15 minutes with clean water and seek immediate medical assistance.
- Skin contact: Thoroughly wash the touch area with soap and clean water, and seek immediate medical assistance.
- Ingestion: Induce vomiting, and seek immediate medical assistance.
- Do not move the battery system if it is connected with external battery modules. Contact after-sales service if the battery shall be replaced or added.

### Caution!

#### Transportation:

- Protect the battery system from damage during transportation and storage.
- Be careful and consider the weight when lifting the battery.
- Do not hit, pull, drag, or step on the equipment or put irrelevant matter into any parts of the battery system .
- To protect the battery pack and its components from damage during transportation, please ensure that the transportation personnel are professionally trained. All operations during the transportation have to be recorded.
- The equipment shall be kept in balance, thus avoiding falling down, product damage and personnel injury.
- In the event of a fire, please make sure that the carbon dioxide extinguisher or Novac1230 or FM-200 is nearby.
- The fire cannot be put out by water or ABC dry powder extinguisher. Firefighters are required to wear full protective clothing and self-contained breathing apparatus.
- The battery may explode when the ambient temperature exceeds 150°C.
- The battery equipment is heavy. Please equip the corresponding personnel according to its weight, so that the equipment does not exceed the weight range of the human body can carry, and cause personnel injury.
- Place the cables at least 30mm away from the heating components or heat sources, otherwise the insulation layer of the cables may be aging or broken due to high temperature.
- Tie the cables of the same type together, and place cables of different types at least 30mm apart. Do not place the cables entangled or crossed.

## 02 Product introduction

### 2.1 Product description

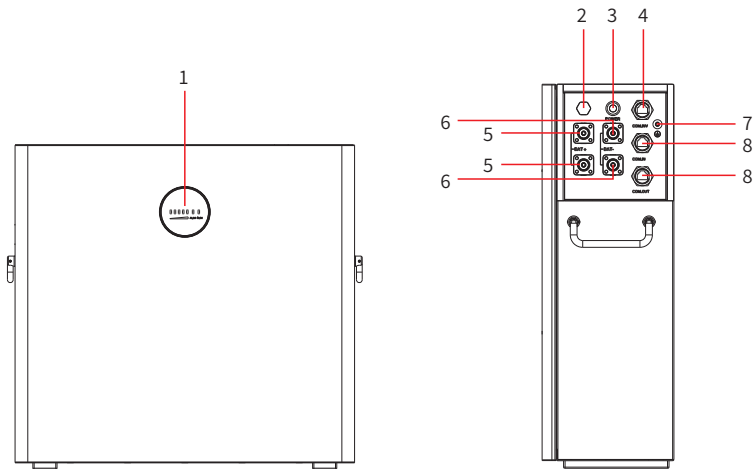
This user manual introduces 5KWH storage battery system (hereinafter referred to as battery system), including the product introduction, application, installation, commission, maintenance and technical parameters, etc. The battery system can be compatible with SH6KL inverter. At most 10 battery systems can be connected in parallel.

### 2.2 Symbol definition

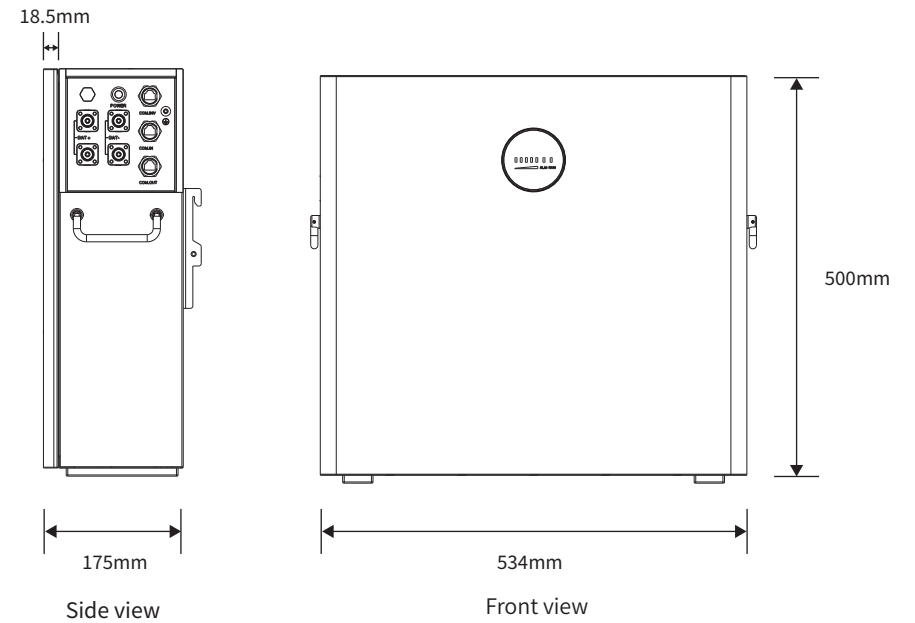
Symbol	Description
	Potential risks exist. Wear proper PPE before any operations.
	High voltage hazard. Power off the equipment first before any operations.
	Operate the equipment properly to avoid explosion danger.
	The equipment contains corrosive electrolytes. In case of a leak in the equipment, avoid contacting the leaked liquid or gas.
	Read through the user manual before any operations.
	Pay attention to personal protection during installation and maintenance.
	Install the equipment away from fire sources.
	Keep the equipment away from children.
	Do not dispose of the equipment with household garbage at its end of life.
	Put the battery in the right place and recycle it in compliance with local environmental regulations.
	CE mark.
	RCM mark.
	Grounding. To indicate PE cable connection position.

## 03 Battery introduction

### 3.1 Part introduction

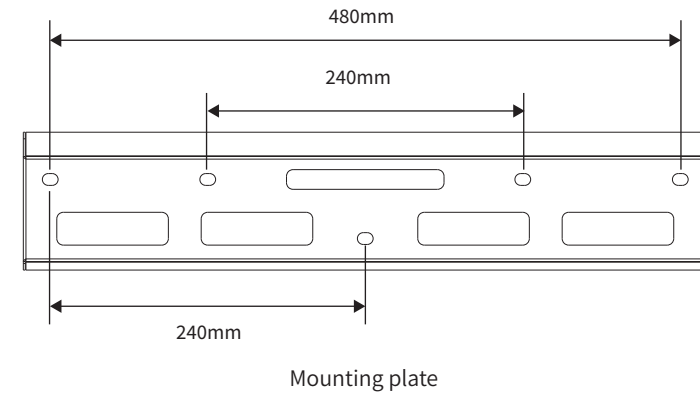


### 3.2 Dimensions



### Port definition

No.	Part	Description
1	SOC indicator	Capacity indication, working together with the switch button to show battery status
2	Ventilation valve	Prevent too high air pressure inside the case
3	Switch button	Turn on/off the battery system
4	COM port 1	INV communication transmission
5	BAT+	Battery positive polarity power transmission
6	BAT-	Battery negative polarity power transmission
7	Grounding terminal	Grounding protection
8	COM port 2	Capacity expansion communication transmission



**Note:** The material of the external enclosure is SGCC (Steel Galvanized Cold Command). The face cover material is 1.0 mm thick and the chassis material is 1.5 mm thick.

## 04 Storage and package

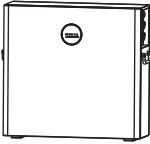




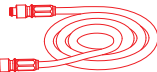
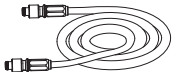
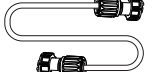


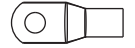
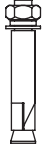
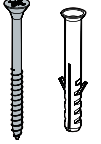
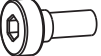
### 4.1 Storage environment

If the equipment is not to be installed or used immediately, please ensure that the storage environment meets the following requirements:

- Pack the equipment with a packing box and put some desiccant in the box before sealing.
- Put the equipment back to the packing box if it is not to be installed in 3 days after unpacking.
- Storage SOC: 25%~50%SOC. Charge and discharge the battery every 3 months.
- Recommended storage temperature: -20°C~40°C (less than one month) or 0°C~35°C (less than one year).
- Recommended storage humidity: 0%~95%RH (no condensation). Do not install the battery if any moist or condensation is found.
- Place the equipment in a cool place where away from direct sunlight.
- Keep the equipment away from inflammable, explosive, and corrosive matters.
- Keep the equipment away from rain.
- Place the equipment away from corrosive and organic materials and gases.
- Keep the equipment at least two meters away from heat sources (such as a radiator).
- Avoid exposure to intensive infrared radiation.

### 4.2 Packing List

- Check outer packing for damage and model before unpacking it. If you find any damage or the model is not what you requested, do not unpack the product and contact the after-sales service as soon as possible.
- Check whether the deliverables are intact and complete first after unpacking the battery. If anything wrong, contact the after-sales service as soon as possible.

 Battery system x 1	 User manual x 1	 Mounting plate A x 2	 Mounting plate B x 1	 Anti-dumping bracket x 1
 Red power connector with cable x 1	 Black power connector with cable x 1	 Parallel signal cable x 1	 Grounding terminal x 1	 M5 Assembling bolt x 9
 SC25-8 copper terminal x 2	 Skruba rozporowa M6 x 5	 Expansion Bolt x 1	 M4 screw x 1	

## 05 System installation

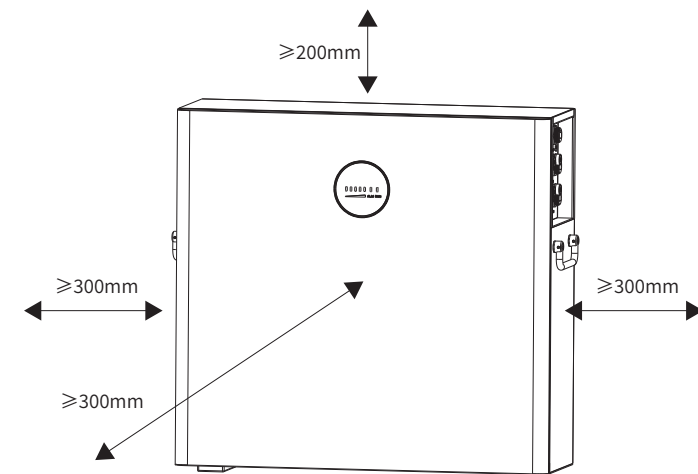
### 5.1 Installation environment

- The 5000Wh battery system is installed indoors in a location that ensures that the use of the batteries is not obstructed by the building structure, fixtures and fittings in the room.
- The 5000Wh battery system is naturally ventilated. The installation location should be clean, dry and well ventilated. To ensure air circulation, install outside one meter of any vertical plane of a window or building vent that ventilates a habitable room.
- Entrance doors and panels to the room should open towards the exit and allow unobstructed access to the battery for installation and maintenance.
- Install the battery system on the ground with sufficient bearing capacity and flatness. If not, increase the bearing capacity and flatness of the ground by laying the foundation, adding bearing plates and so on.
- The optimal temperature for the battery is 20~40°C.
- Avoid exposing the equipment to direct sunlight or rain.
- Keep the equipment at least two meters away from heat sources, such as direct sunlight, a fireplace, a thermally uninsulated wall exposed to sunlight, hot water, or a heater.
- Install the equipment away from cold source.
- Do not install the equipment in the place where the temperature changes extremely.
- Install the equipment away from strong interferences to ensure its regular work.
- Keep children away from the equipment.
- Do not install the equipment in places prone to accumulating water.
- Do not put inflammable or explosive matters near the equipment.

### 5.2 Space requirements

#### 5.2.1 Floor mounting installation distance requirement

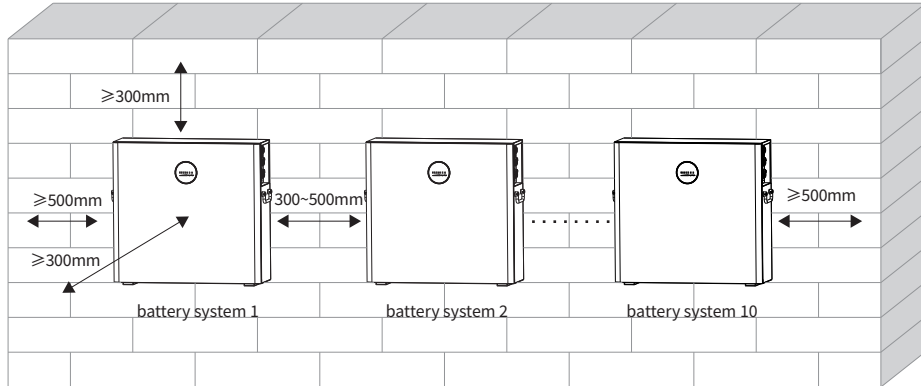
- Note** Distances at both sides are recommended distances.  
Shorten the distance as much as possible in a proper range.



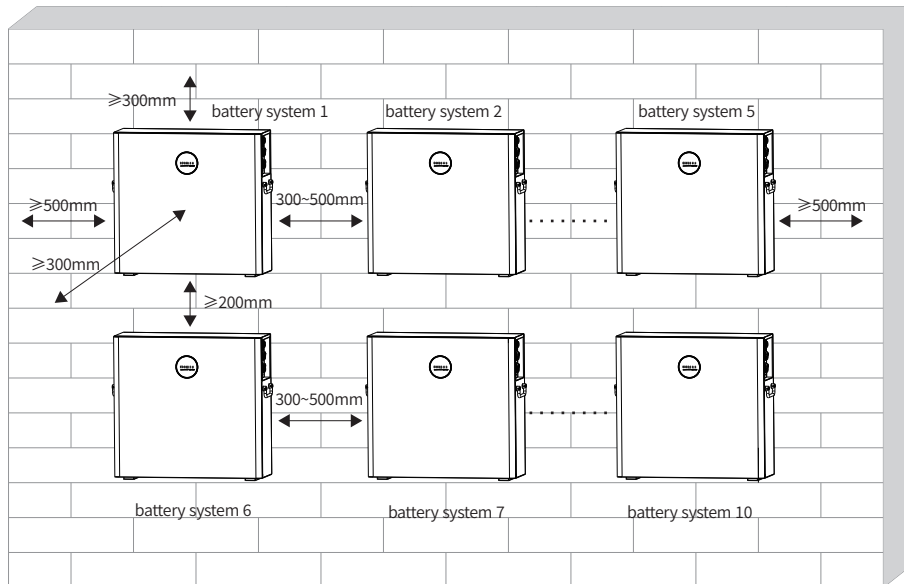
## 5.2.2 Wall mounting installation distance requirement

**Note** Distances at both sides are recommended distances. Shorten the distance as much as possible in a proper range.

### Installed in single row



### Installed in double rows

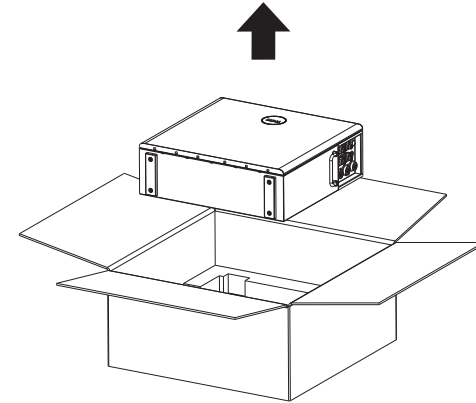


## 5.3 System installation

**Note** Battery systems in parallel shall be with close manufacturing dates and same range of OCV difference.

### 5.3.1 Unpack package

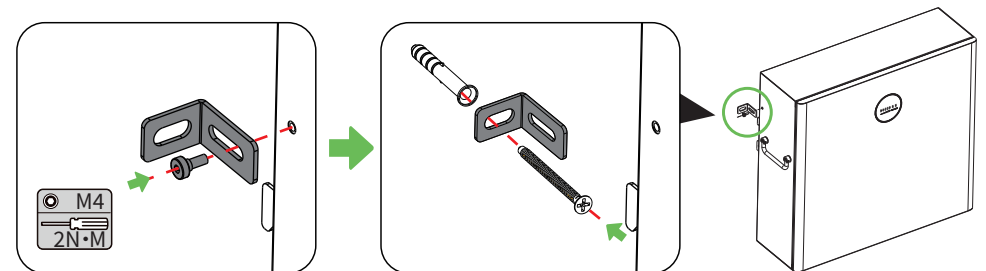
Open the carton to take out the accessories and battery system .



### 5.3.2 Floor mounting installation

**Note** Ensure the ground is flat and not tilted, and anti-dumping brackets are installed at both sides.

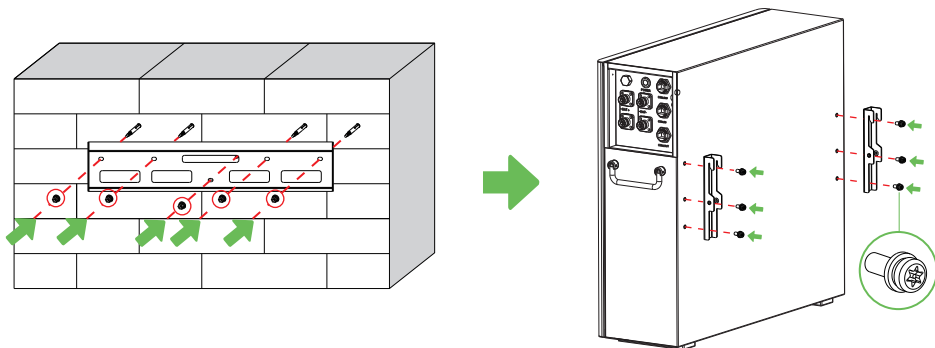
- Screw the anti-dumping bracket on the battery.
- Align the battery and the wall, then put the anti-dumping bracket close to the wall. Mark the drilling position and remove the battery.
- Drill a hole on the wall with a driller, hole diameter 10mm, depth 80mm.
- Fix the expansion bolts, tightening torque: 10N·m.



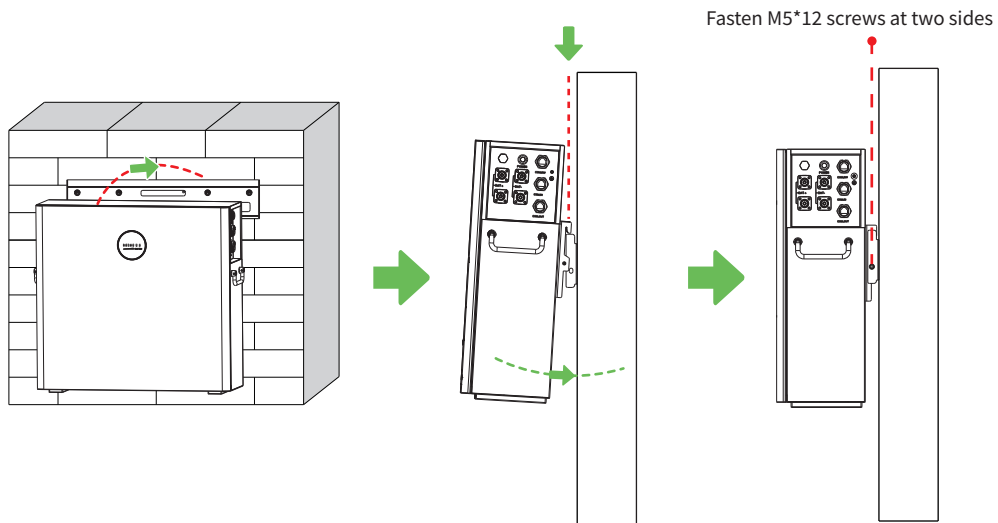
### 5.3.3 Wall mounting installation

**Note** Wall mounting needs to be done by 2 people.

1. Position the wall-mounted board as a template so that the wall-mounted board is parallel to the ground.
2. Place the wall mounting plate close to the wall firmly. Mark the drilling position and remove the wall mounting plate.
3. Drill a hole on the wall with a driller, hole diameter 10mm, depth 50mm.
4. Fix the M6 expansion bolts, tightening torque:  $10N \cdot m$ .
5. Install the rear mounting plate A on the chassis and make sure it is securely placed.

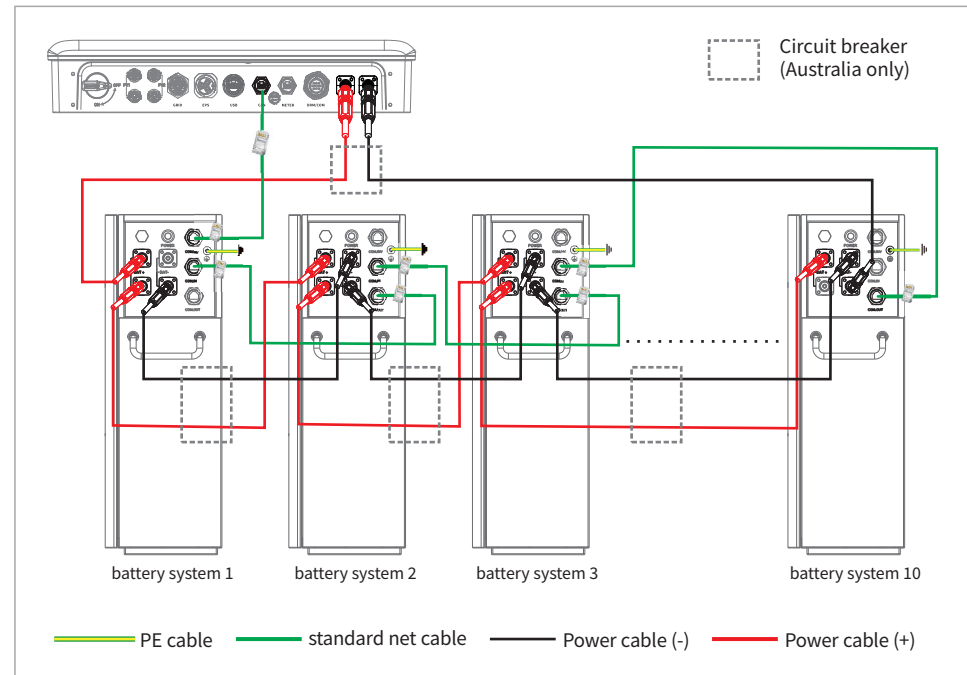


6. Lift the battery system in parallel to the ground.
7. Hang the top of the mounting plate to the wall mounting plate.
8. Hold the handle at each side, and hold up the bottom to fix it into the slot.



### 5.3.4 Cable connection

Cable connection overview

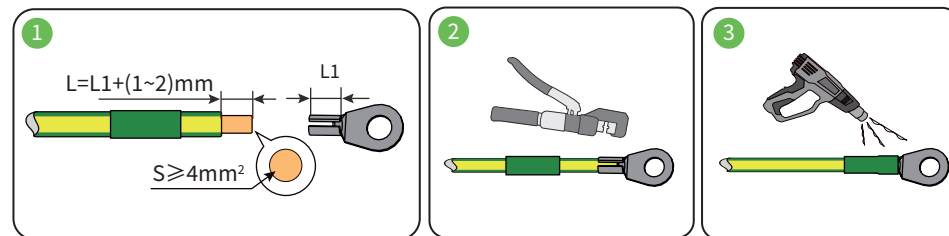


### PE cable connection

**Note**

- Connect the PE cable first before installing the equipment. Disconnect the PE cable before dismantling the equipment.
- The drawing force of the cables after crimping is at least 400N.
- Connect any one of the two PE cables to the ground. Reserve the other cable.
- The cross-sectional area of the PE cable conductor:  $5\text{mm}^2$ . The cable should meet standards for outdoor use.
- Applicable screw: M5X12.

1. Crimp the PE cable.

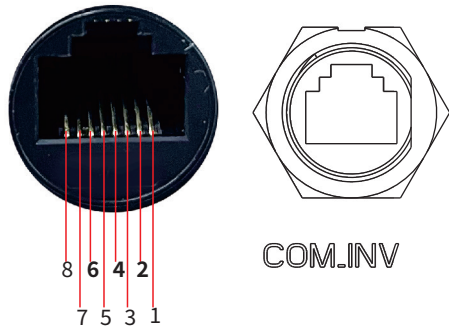






5. Connect the communication cable and terminal resistor to the battery.
6. Tighten the cover.

RJ45 communication port

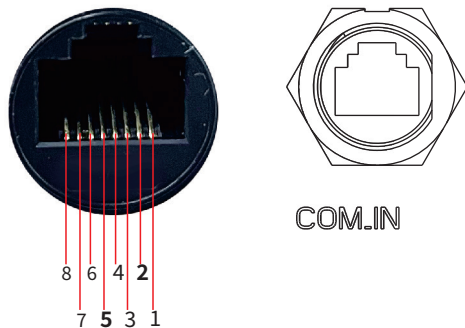


#### COM\_INV ports definition

RJ45 PIN	Definition	Remark
1	SLEEP_WKP	
2	GND	
3	NC	Void
4	CANH	
5	CANL	
6	NC	Void
7	RS485-A	
8	RS485-B	

RJ45 PIN definition for inverter & BMS communication

RJ45 communication port

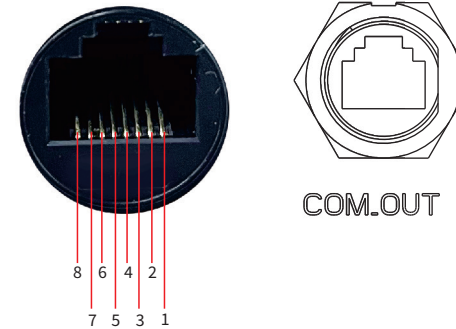


#### COM\_IN ports definition

RJ45 PIN	Definition	Remark
1	CANL	
2	IUIP	
3	CANH	
4	I_READY	
5	GND	
6	O_WKUP	
7	NC	Void
8	NC	Void

RJ45 PIN definition for BMS parallel input communication

RJ45 communication port



#### COM\_OUT ports definition

RJ45 PIN	Definition	Remark
1	CANL	
2	GND	
3	CANH	
4	O_READY	
5	GND	
6	I_WKUP	
7	NC	Void
8	NC	Void

RJ45 PIN definition for BMS parallel input communication

## 06 System Operation

### 6.1 Check before power on

Check the following items before power on. Otherwise, the battery system may be damaged.

No.	Items
1	The equipment is installed firmly in a place where is convenient for operation and maintenance. The installation place is clean and well ventilated.
2	The ground cable, power cable, communication cable and terminal resistance are connected correctly and securely.
3	The cable ties meet the cabling requirements and are reasonably distributed. No cables or ties are broken.
4	Unused ports are sealed.

### 6.2 Power on

#### Note

The circuit breaker between the inverter and the battery and the circuit breaker between the battery and the battery must be installed in accordance with local laws and regulations.

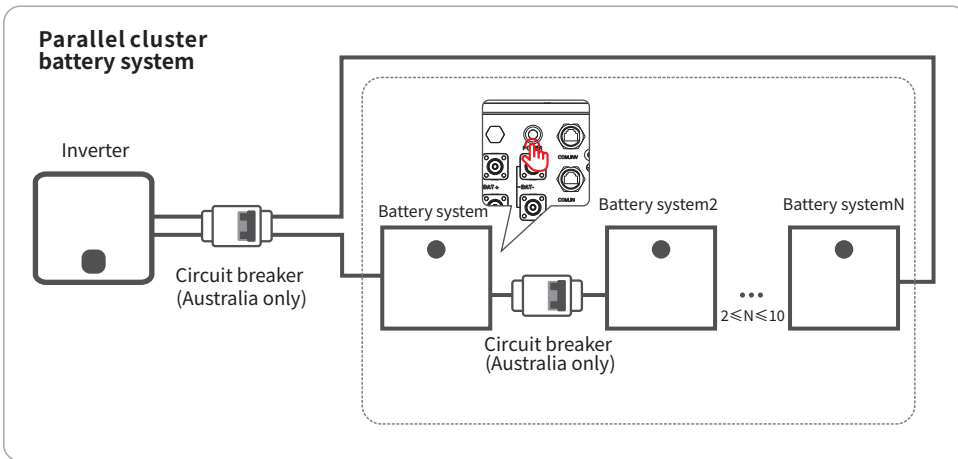
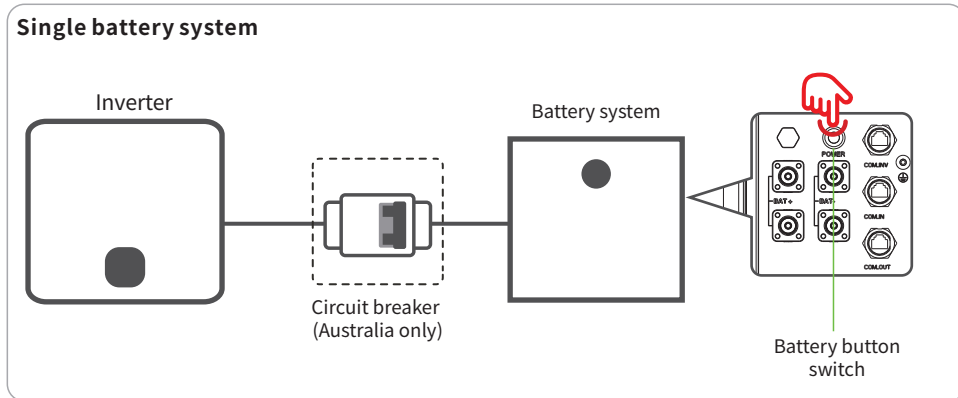
All circuit breakers are cooperate in all live (a.c. - active and neutral or d.c. - positive and negative) conductors.

The breaker should isolate both positive and negative conductors simultaneously and can ensure that any energized parts are isolated prior to any maintenance, installation, repair or replacement activities.

**Step 1** (Optional) Close the circuit breaker between the inverter and battery system.

**Step 2** (Optional) Close the circuit breaker between the battery and battery system. (When multiple machines are connected in parallel.)

**Step 3** Press the battery button switch. (When using in parallel, just press the battery button switch that communicates with the inverter.)



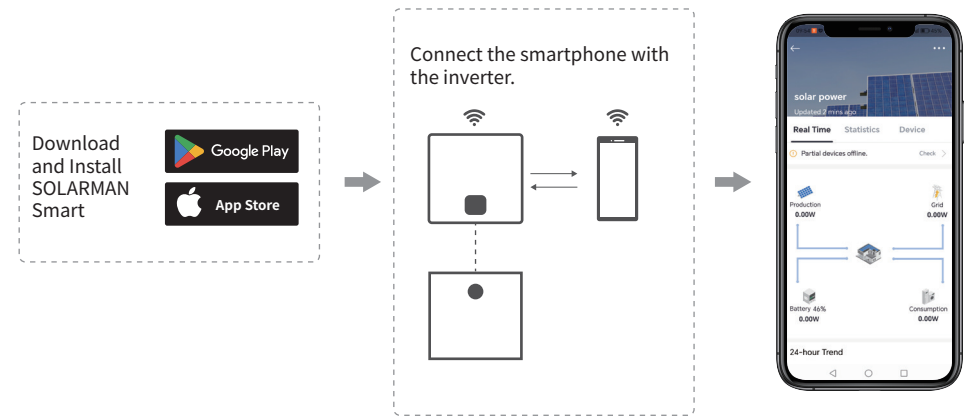
**Low voltage DC miniature circuit breaker (125 series)**

- \*No polarity and bidirectional protection. \*Short circuit protection and overload protection.
- \*High breaking capacity, up to 10kA.
- \*Ui: 500Vdc \*Ue: 80/160Vdc \*In:125A

**6.3 Battery parameter viewing and setting**

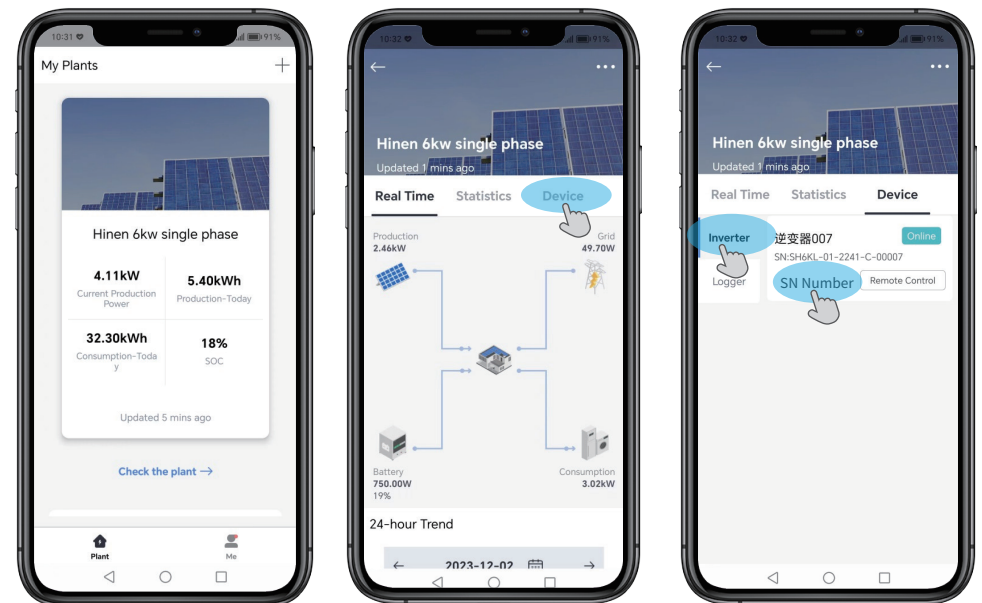
Select the right options on SOLARMAN Smart after connecting the battery and the inverter.

• APP Installatin and Connection:



• View Battery Parameters

Click on the inverter connected to the battery to open the corresponding interface to view the battery parameters.

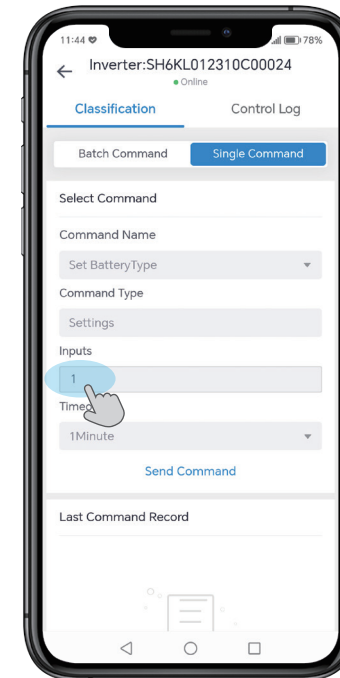


Battery	
Battery Status: <b>Discharging</b>	Battery Charging Type: <b>Lithium Battery</b>
Battery Voltage: <b>51.90V</b>	Battery Voltage1: <b>52.20V</b>
Battery Power: <b>690.00W</b>	Battery Discharging Power: <b>690.00W</b>
Battery Charging Power: <b>0.00W</b>	SoC: <b>18%</b>
SoH: <b>97%</b>	Total Charging Energy: <b>10.10kWh</b>
Total Discharging Energy: <b>15.40kWh</b>	Daily Charging Energy: <b>1.80kWh</b>
Daily Discharging Energy: <b>1.50kWh</b>	Highest Individual Voltage No.: <b>0</b>
Lowest Individual Voltage Number: <b>0</b>	Highest Temperature Number: <b>0</b>
Lowest Temperature Number: <b>0</b>	Battery Factory: <b>3</b>
Cycle Count: <b>0</b>	Pack Fault ID: <b>0</b>
Battery Maximum Soc: <b>0</b>	Minimum Battery Soc: <b>0</b>
BDU_Battery_Number: <b>0</b>	

## Battery

Here is the information about the batteries assigned to the system: current battery status, battery type, battery host voltage, battery slave voltage, battery power, battery charging power, battery discharging power, remaining battery capacity (SOC), battery health index (SOH), cumulative battery charging, cumulative battery discharging, battery charging on the day, battery discharging on the day, and so on.

• Select Battery Protocol



Enter the number corresponding to the battery protocol and send the command.

BMS	
BMS Voltage: <b>51.80V</b>	BMS Current: <b>-10.00A</b>
BMS Temperature: <b>19.50°C</b>	BMS Max Charge Current: <b>71.40A</b>
BMS Max Discharge Current: <b>89.60A</b>	BMS_SOC: <b>18%</b>
battery cell maximum temperature: <b>0.00°C</b>	Minimum temperature of battery cell: <b>0.00°C</b>
Maximum Pressure Difference Of Single Cell: <b>0</b>	Battery CV Voltage: <b>57.60V</b>
Highest Monomer Voltage: <b>0.00V</b>	Lowest Monomer Voltage: <b>0.00V</b>
Number Of Batteries In Parallel: <b>1</b>	Gauge RM: <b>0</b>
Gauge FCC: <b>0</b>	

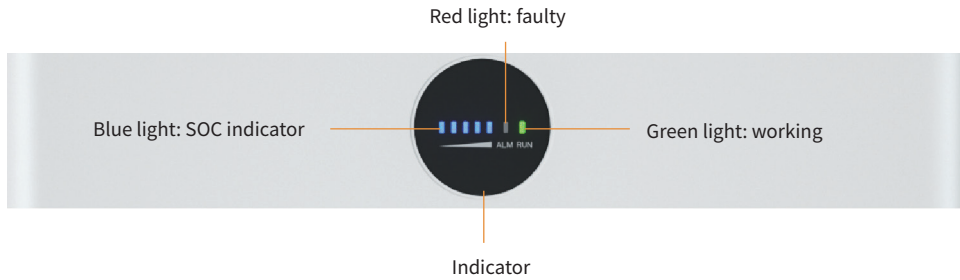
## BMS

Here is the main battery management system BMS related information, including BMS battery voltage, BMS battery current, BMS temperature, BMS maximum charging current, BMS maximum discharging current, BMS SOC and so on.

Battery Protocol Code		
	Single-phase inverter	Three-phase inverter
0	PYLON Protocol	
1	HINEN Protocol	
2	Growatt Protocol	
3	Growcol Protocol	
4	SHOTO Protocol	
5	GoodWE Protocol	
6	YUZEI Protocol	
7-20	Battery 7~20	

**Note:** Please select the correct battery protocol, one side of the battery system can not be normal.

## 6.4 Indicator status



Indicator	Status
Green light	Standby, working
Red light	Alert, faulty
Blue light	SOC indicator

### 6.4.1 Normal state

SOC indicator	Description
	0%<SOC<20%
	20%<SOC<40%
	40%<SOC<60%
	60%<SOC<80%
	80%<SOC<100%

## 6.4.2 Alerting

Button Indicator	SOC indicator	Alerting	Solution
Red light blinks		Battery over voltage	Restart the battery. If it's still not fixed, contact customer service.
		Single unit pressure difference is too large	Charge the battery, waiting for the voltage to recover.
		Unit under voltage	
		VTOP under voltage	
		VTOP over voltage	Restart the battery. If it's still not fixed, contact customer service.
		Battery over temperature	Turn off and wait for 2 hours. If it's still not fixed, contact customer service.
		Battery low temperature	Turn off, wait the temperature to recover, restart the battery. If it's still not fixed, contact customer service.
		Overcurrent when charging	Restart the battery. If it's still not fixed, contact customer service.
		Overcurrent when discharging 1	
		Overcurrent when discharging 2	
		Short when discharging	Turn off, remove and check equipment, restart the battery. If it's still not fixed, contact customer service.
		Short when charging	
		PCB over temperature	Turn off and wait for 2 hours. If it's still not fixed, contact customer service.
		Pre-charge resistor over temperature	
		MOS temperature is too high	Charge the battery, waiting for the voltage to recover.
		IUIP parallel signal fault	Turn off, check the communication cable, restart the battery. If it's still not fixed, contact customer service.
	I_WORK parallel signal fault		
	Parallelization over time		
	Parallelization readiness failure		

### Remark

- It is recommended to restart by the switch button.
- When running in parallel, after the battery under-voltage protection and under-voltage protection are powered off, just click the battery button switch that communicates with the inverter to force activation.

### 6.4.3 Faulty

Button Indicator	SOC indicator	Alerting	Solution
Red light always on		Battery voltage sampling wire broken	Restart the battery. If it's still not fixed, contact customer service.
		MOS failure	
		AFE communication failure	
		EEPROM failure	
		Voltage sensor failure	
		Extremely high battery voltage fault	Contact customer service.
		Main circuit fault	
		Pre-charge over time	Restart the battery. If it's still not fixed, contact customer service.
		Current sensor failure	
		Dead battery	
		Inverter communication failure	Turn off, check the communication cable. If it's still not fixed, contact customer service.
		CAN bus failure	
		RS485 bus failure	
		Parallel address recognition failure	
		Short circuit protection fuse circuit fault	Contact customer service.

### 6.5 Power off

Please follow the steps to power off the Battery System, otherwise, the System may be damaged.

**Step 1** Press the power button for more than 3 seconds until the indicator lights off. If multiple batteries are connected, press only the battery power button that communicates with the inverter.

**Step 2** Disconnect the circuit breakers of all batteries.

**Step 3** Make sure that the SOC indicator of the battery is off.

## 07 Technical parameters

Model	B5000				
Product name	Rechargeable Li-ion Battery Pack (5.12kWh)	Rechargeable Li-ion Battery Pack (10.24kWh)	Rechargeable Li-ion Battery Pack (15.36kWh)	Rechargeable Li-ion Battery Pack (20.48kWh)	Rechargeable Li-ion Battery Pack (25.6kWh)
Rated Energy <sup>1</sup>	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Usable capacity	4.6kWh	9.21kWh	13.82kWh	18.43kWh	23.04kWh
Battery type	LFP(LiFePO <sub>4</sub> )				
Number of modules	1	2	3	4	5
Battery configuration	16S1P	16S2P	16S3P	16S4P	16S5P
Cycle life <sup>2</sup>	6000 cycles				
Rated voltage	51.2V				
Operating voltage range	40-57.6V				
Peak current	120A 60S				
Depth of Discharge (DOD)	90%	90%	90%	90%	90%
Max. continuous charge / discharge current	100A	120A	120A	120A	120A
Rated power	5.12KW	6.14KW	6.14KW	6.14KW	6.14KW
Short-Circuit Current	800A@0.1mS				
Run Log Recording	32M-byte				
Communication	CAN				
Weight	51.4KG	102.8KG	154.2KG	205.6KG	257KG
Dimensions (W*H*D)	534*500*175mm				
Operating temperature	Charge: 0°C < T < 55°C / Discharge: -20°C < T < 55°C				
Storage temperature	-20~40°C(≤One month)/0~35°C(≤One year)				
Humidity	≤10-85%				
Altitude	≤2000m				
Ingress protection rating	IP65				
Installation type	Wall-mounted/Floor stand				
Warranty <sup>3</sup>	5 Years Warranty, 10 Years Performance Life				
Country of manufacture	Made in China				

Rated Energy<sup>1</sup>: Test conditions: 80% DOD, 0.5C charge & discharge at +25±3°C.

Cycle life<sup>2</sup>: Test conditions, 80%DOD, 0.5C charge & 0.5C discharge at +25±3°C.

Warranty<sup>3</sup>: Refer to battery warranty letter for conditional application.

Model	B5000				
Product name	Rechargeable Li-ion Battery Pack (30.72kWh)	Rechargeable Li-ion Battery Pack (35.84kWh)	Rechargeable Li-ion Battery Pack (40.96kWh)	Rechargeable Li-ion Battery Pack (46.08kWh)	Rechargeable Li-ion Battery Pack (51.2kWh)
Rated Energy <sup>1</sup>	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.2kWh
Usable capacity	27.64kWh	32.25kWh	36.86kWh	41.47kWh	46.08kWh
Battery type	LFP(LiFePO <sub>4</sub> )				
Number of modules	6	7	8	9	10
Battery configuration	16S6P	16S7P	16S8P	16S9P	16S10P
Cycle life <sup>2</sup>	6000 cycles				
Rated voltage	51.2V				
Operating voltage range	40~57.6V				
Peak current	120A 60S				
Depth of Discharge (DOD)	90%	90%	90%	90%	90%
Max. continuous charge / discharge current	120A	120A	120A	120A	120A
Rated power	6.14KW	6.14KW	6.14KW	6.14KW	6.14KW
Short-Circuit Current	800A@0.1mS				
Run Log Recording	32M-byte				
Communication	CAN				
Weight	308.4KG	359.8KG	411.2KG	462.6KG	514KG
Dimensions (W*H*D)	534*500*175mm				
Operating temperature	Charge: 0°C < T < 55°C / Discharge: -20°C < T < 55°C				
Storage temperature	-20~40°C(≤One month)/0~35°C(≤One year)				
Humidity	≤10~85%				
Altitude	≤2000m				
Ingress protection rating	IP65				
Installation type	Wall-mounted/Floor stand				
Warranty <sup>3</sup>	5 Years Warranty, 10 Years Performance Life				
Country of manufacture	Made in China				

Rated Energy<sup>1</sup>: Test conditions: 80% DOD, 0.5C charge & discharge at +25±3°C.

Cycle life<sup>2</sup>: Test conditions, 80%DOD, 0.5C charge & 0.5C discharge at +25±3°C.

Warranty<sup>3</sup>: Refer to battery warranty letter for conditional application.

## 08 Maintenance

Item	Period
Fully charge the battery and discharge it to 25~50% if the battery is not in use.	Once every 3 months
Check the wall mounting plate, fix it if it is not secured.	Once every 6 months
Check whether the outer shell is broken. Repair the painting or contact after-sales service if there is any broken.	Once every 6 months
Check whether there is an exposed cable. Replace the exposed cable or contact after-sales service for help.	Once every 6 months
Check whether there is debris accumulation around the battery to avoid affecting heat dissipation.	Once every 6 months
Check for water and pest to avoid prolonged intrusion.	Once every 6 months

### Warning!

- Please contact after-sales for help if you find any problems that may influence the battery or the inverter. Disassemble without permission is strictly forbidden.
- Please contact after-sales for help if the conductive wire is exposed because high voltage danger exists. Do not touch or disassemble privately.
- In case of other emergencies, contact the after-sales as soon as possible. Please operate following the guidance of the after-sales, or just wait for the after-sales service operators.